## OM Publications: Ken Tarboton

## REFEREED PUBLICATIONS

**Tarboton, K.C.**, Neidrauer, C.J. and Santee, E.R., 2001. Application of the South Florida Water Management Model to Develop the Comprehensive Everglades Restoration Plan. Accepted. Peer reviewed proceedings, Environmental Water Resources Institute of ASCE. Speciality Symposium: Integrated Surface and Ground Water Management. World Water and Environmental Resource Congress, Orlando, FL May 20-24, 2001.

**Tarboton, K.C.**, Wallender, W.W. and Raghuwanshi, N.S., 2000. 2-D Saturated Unsaturated Zone Irrigation and Drainage Model: I - Theory. Under review. Submitted to Journal of Hydrology, June 24, 2000.

**Tarboton, K.C.** Raghuwanshi, N.S., Wallender, W.W. and 2000. 2-D Saturated Unsaturated Zone Irrigation and Drainage Model: II - Sensitivity and Calibration. Under review. Submitted to Journal of Hydrology, June 24, 2000.

**Tarboton, K.C.** and Wallender, W.W., 2000. Finite-element grid configurations for drains. Journal of Irrigation and Drainage Engineering, 126(4).

**Tarboton, K.C.**, Wallender, W.W., Fogg, G.E. and Belitz, K., 1995. Kriging of regional hydrologic properties in the Western San Joaquin Valley, California. Hydrogeology J., 3(1), 5-23.

Grismer M.E., **Tarboton, K.C.** and Wallender, W.W., 1994. Integrated modeling of regional-scale irrigation/drainage management. In: Agrosystems and the Environment, Sources, Control and Remediation of Potentially Toxic, Trace Element Oxyanions edited by L.M.Dudley and J.C.Guitjens. P 137-157.

Kienzle, S.W. and **Tarboton, K.C.**, 1992. Improvement of agro-hydrological modeling through a link with a geographical information system. Agric. Engng. in S. Afr., 24, 134-146.

Tarboton, K.C., 1992. Interfacing GIS and hydrological modeling: Mgeni case study. Water SA,18(4) 273-278.

**Tarboton, K.C.** and Schulze R.E., 1991. The ACRU modeling system for large catchment water resources management. Int. Assoc. Hydrol. Sci. Publ., 201, 219-232.

**Tarboton, K.C.** and Cluer, R., 1991. Consideration of land-cover changes over time for modeling long-term hydrological responses. Agric. Engng. in S. Afr., 23, 450-459.

**Tarboton, K.C.** and Schulze, R.E., 1990 Impacts of increased afforestation and farm dams on water resources of the upper Mgeni catchment. Agric. Engng. in S. Afr., 22, 201-215.

**Tarboton, K.C.** and Wallender, W.W., 1989. Field-wide furrow infiltration variability. Trans. Am. Soc. Agric. Engrs., 32(3), 913-918.

## OTHER PUBLICATIONS, ABSTRACTS, PROCEEDINGS, REPORTS AND PRESENTATIONS

**Tarboton, K.C.**, and Obeysekera, J., 2000. Integrated modeling to manage south florida's water resources. Presented at Integrated Water resources management Conference, Davis, California, April 2000.

**Tarboton, K.C.**, Neidrauer, C.J., Santee, E.R. and Needle, J.C., 1999. Regional hydrologic Modeling for planning the management of south Florida's water resources through 2050. Am. Soc. Agric. Engrs., Paper No. 992062.

**Tarboton, K.C.** and Wallender, W.W., 1994. Saturated-unsaturated modeling of a 7 km x 30 m transect: A step towards regional scale modeling. Eos Trans. AGU, 75(44): Fall Meeting Suppl., 271.

Wallender, W.W., **Tarboton, K.C.** and Purkey, D.R., 1994. Integrated hydrologic model to manage irrigation for regional drainage reduction. UC Salinity/Drainage Program, Annual Report 1993-94, 145-164.

Tarboton, K.C. and Wallender, W.W., 1993. Verification of a two-dimensional saturated-unsaturated flow

model. Eos Trans. AGU, 74(43): Fall Meeting Suppl., 302.

**Tarboton, K.C.** and Wallender, W.W., 1993. Estimation of regional hydrologic properties using kriging. Am. Soc. Agric. Engrs., Paper No. 93-2070.

**Tarboton, K.C.** and Schulze, R.E., 1993. Hydrological consequences of development scenarios for the Mgeni catchment. Proc. 6th S. Afr. Nat. Hydrol. Symp., Pietermaritzburg, 297-304.

**Tarboton, K.C.** and Cluer, R., 1993. Modelling hydrological response to long term land cover changes. Proc. 6th S. Afr. Nat. Hydrol. Symp., Pietermaritzburg, 539-545.

**Tarboton, K.C.** 1993. Irrigated agriculture in California: Challenges and lessons. University of Natal, Department of Agricultural Engineering, Invited seminar, September 6.

**Tarboton, K.C.** 1992. Application of a hydrological modeling system to agricultural catchments in South Africa. Utah State University, Department of Civil Engineering Seminar, March 31, and University of California, Davis, Water Science Seminar, Apr 30.

**Tarboton, K.C.** and Schulze R.E., 1992. Development of a Hydrological Modeling System for the Mgeni Catchment, South Africa. Eos Trans. AGU, 73(43): Fall Meeting Suppl., 242.

**Tarboton, K.C.** and Schulze R.E., 1992. Distributed Hydrological Modelling System for the Mgeni Catchment. ACRU Report 39, Dept. Agric. Engng., Univ. Natal, Pietermaritzburg, S. Afr., 111p.

**Tarboton, K.C.**, 1991. Interfacing GIS and hydrological modeling: Mgeni case study. Proc. 5th S. Afr. Nat. Hydrol. Symp., Stellenbosch, 9B21-9B29.

**Tarboton, K.C.**, 1991. Daily rainfall estimation for distributed catchment modeling. Proc. 5th S. Afr. Nat. Hydrol. Symp., Stellenbosch, 4A31-4A39.

**Tarboton, K.C.** and Schulze, R.E., 1990. Development of a systems hydrological model to assist with the water quality management in the Mgeni catchment. Progress report to the Water Research Commission for the period July 1989 to June 1990. 6 p.

**Tarboton, K.C.** 1989. Surface Irrigation: Theory and Practise. Presentation at the South African Institute of Agricultural Engineers, Western Cape Branch Meeting, May 18.

**Tarboton, K.C.** and Wallender, W.W., 1988. Field-wide furrow infiltration variability. Am. Soc. Agric. Engrs., Paper No. 882018.

**Tarboton, K.C.**, 1988. Field-wide infiltration variability in furrow irrigation. MS Thesis, Dept. Agric. Engng., Univ. Calif. Davis, California, 137p.

**Tarboton, K.C.** 1986. Use of the CERES model to determine the effect on yield of reduced peak irrigation application. Presentation at Workshop on Crop Yield Modelling, Potchefstroom, July. 17 p.